

Title (en)
SURGICAL GRIPPING INSTRUMENT

Publication
EP 0165472 A3 19870909 (DE)

Application
EP 85106030 A 19850515

Priority
DE 8415222 U 19840518

Abstract (en)
[origin: US4646751A] An improved flexible biopsy forceps with cleaning port for introducing cleansing fluid into the interior of the forceps.

IPC 1-7
A61B 10/00; **A61B 17/28**; **A61B 17/32**

IPC 8 full level
A61B 10/00 (2006.01); **A61B 10/02** (2006.01); **A61B 17/28** (2006.01); **A61B 17/32** (2006.01); **A61B 19/00** (2006.01); **A61M 3/02** (2006.01)

CPC (source: EP US)
A61B 10/02 (2013.01 - EP US); **A61B 17/29** (2013.01 - EP US); **A61B 90/70** (2016.02 - EP US); **A61B 2017/2905** (2013.01 - EP US);
A61B 2217/007 (2013.01 - EP US); **A61M 3/0279** (2013.01 - EP US)

Citation (search report)

- DE 2506471 B2 19770616
- DE 2817922 A1 19781026 - OLYMPUS OPTICAL CO
- DE 2558570 B2 19770929
- US 2113246 A 19380405 - CHARLES WAPPLER FREDERICK

Cited by
EP0288309A1; US6015426A; FR2687053A1; US5499992A; US5928255A; DE19510707A1; US6004509A; US5478351A; US5746759A;
US6139563A; DE19630324A1; DE19630324B4; US5797959A; EP0582295A3; US5514157A; US5782859A; WO9400059A1

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US 4646751 A 19870303

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EP 85106030 A 19850515; AT 85106030 T 19850515; DE 3581665 T 19850515; US 73531385 A 19850517